

Listing of Claims

What is Claimed:

1. (Currently Amended) A method for making a ceramic product from fiber glass waste, comprising:
heating the fiber glass waste to remove water, burn out organic matter, and/or increase the friability of the fiber glass waste;
reducing the fiber glass waste into a glass powder;
mixing the glass powder with additives into a glass-additives mixture;
granulating the glass-additives mixture into granulated particles;
forming the granulated particles into a green ceramic article; and
heating the green ceramic article into the ceramic product.
2. (Canceled)
3. (Canceled)
4. (Currently Amended) The method according to claim [1]27, wherein the reducing of the fiber glass waste into the glass powder comprises reducing the fiber glass waste to pieces with fiber lengths less than about 0.6 mm.
5. (Currently Amended) The method according to claim [1]27, wherein the reducing of the fiber glass waste into the glass powder comprises reducing the fiber glass waste with a liquid added.
6. (Currently Amended) The method according to claim [1]27, wherein the reducing of the fiber glass waste into the glass powder comprises reducing the fiber glass waste with water added.
7. (Currently Amended) The method according to claim [1]27, wherein the reducing of the fiber glass waste into the glass powder comprises reducing the fiber glass waste without a liquid added.

8. (Currently Amended) The method according to claim [1]27, wherein 70-100 weight percent of the glass-additives mixture is comprised of the waste glass, 0-20 weight percent of the glass-additives mixture is comprised of fillers, and 0-10 weight percent of the glass-additives mixture is comprised of organic binders.

9. (Currently Amended) The method according to claim [1]27, wherein the additives are comprised of fillers, consisting of silica, alumina, zirconia, clay, feldspar, and/or any other ceramic raw material.

10. (Currently Amended) The method according to claim [1]27, wherein the additives are comprised of fillers, consisting of clay, sodium silicate, and/or any other inorganic binder.

11. (Currently Amended) The method according to claim [1]27, wherein the additives are comprised of filler, consisting of inorganic colorants.

12. (Currently Amended) The method according to claim [1]27, wherein the additives are comprised of fillers, consisting of coarse-sized particles added to roughen a surface texture of the ceramic product.

13. (Currently Amended) The method according to claim [1]27, wherein the additives are comprised of fillers added to improve a property of the ceramic product, including but not limited to mechanical, chemical durability, and thermal properties.

14. (Currently Amended) The method according to claim [1]27, wherein the additives are comprised of aqueous organic binders.

15. (Currently Amended) The method according to claim [1] 27, wherein the additives are comprised of nonaqueous organic binders.
16. (Currently Amended) The method according to claim [1] 27, wherein the mixing of the glass powder with additives into a glass-additives mixture is comprised of mixing of the glass powder with additives in a liquid.
17. (Currently Amended) The method according to claim [1] 27, wherein the mixing of the glass powder with additives into a glass-additives mixture is comprised of mixing of the glass powder with additives in water.
18. (Currently Amended) The method according to claim [1] 27, wherein the mixing of the glass powder with additives into a glass-additives mixture is comprised of mixing of the glass powder with additives without a liquid added.
19. (Currently Amended) The method according to claim [1] 27, wherein the granulating of the glass-additives mixture into granulated particles is comprised of drying the glass-additives mixture in a drier, including but not limited to a spray drier or fluid-bed drier.
20. (Currently Amended) The method according to claim [1] 27, wherein the forming of the granulated particles into a green ceramic article is comprised of pressing or extrusion.
21. (Currently Amended) The method according to claim [1] 27, wherein the heating of the green ceramic article into the ceramic product comprises firing the green ceramic article to a maximum temperature of about 700°C to about 1000°C.
22. (Currently Amended) The method according to claim [1] 27, wherein the heating of the green ceramic article into the ceramic product comprises drying

the green ceramic article to remove liquid, followed by firing to a maximum temperature of about 700°C to about 1000°C.

23. (Currently Amended) The method according to claim [1] 27, wherein the heating of the green ceramic article into the ceramic product causes partial crystallization of the ceramic product.

24. (Currently Amended) The method according to claim [1] 27, wherein the ceramic product comprises tile or brick.

25. (Currently Amended) The method according to claim [1] 27, wherein the ceramic product has a smooth glossy surface.

26. (Currently Amended) The method according to claim [1] 27, wherein the ceramic product is further processed by applying a glaze thereon.

27. (Previously Presented) A method for making a ceramic product from fiber glass waste, comprising:

- heating the fiberglass waste;
- reducing the heated fiber glass waste into a glass powder;
- mixing the glass powder with additives into a glass-additives mixture;
- granulating the glass-additives mixture into granulated particles;
- forming the granulated particles into a green ceramic article; and
- heating the green ceramic article into the ceramic product